

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: JamesDonkey

Test Model: J1

FCC ID: 2BGKB-J1

Environmental Conditions

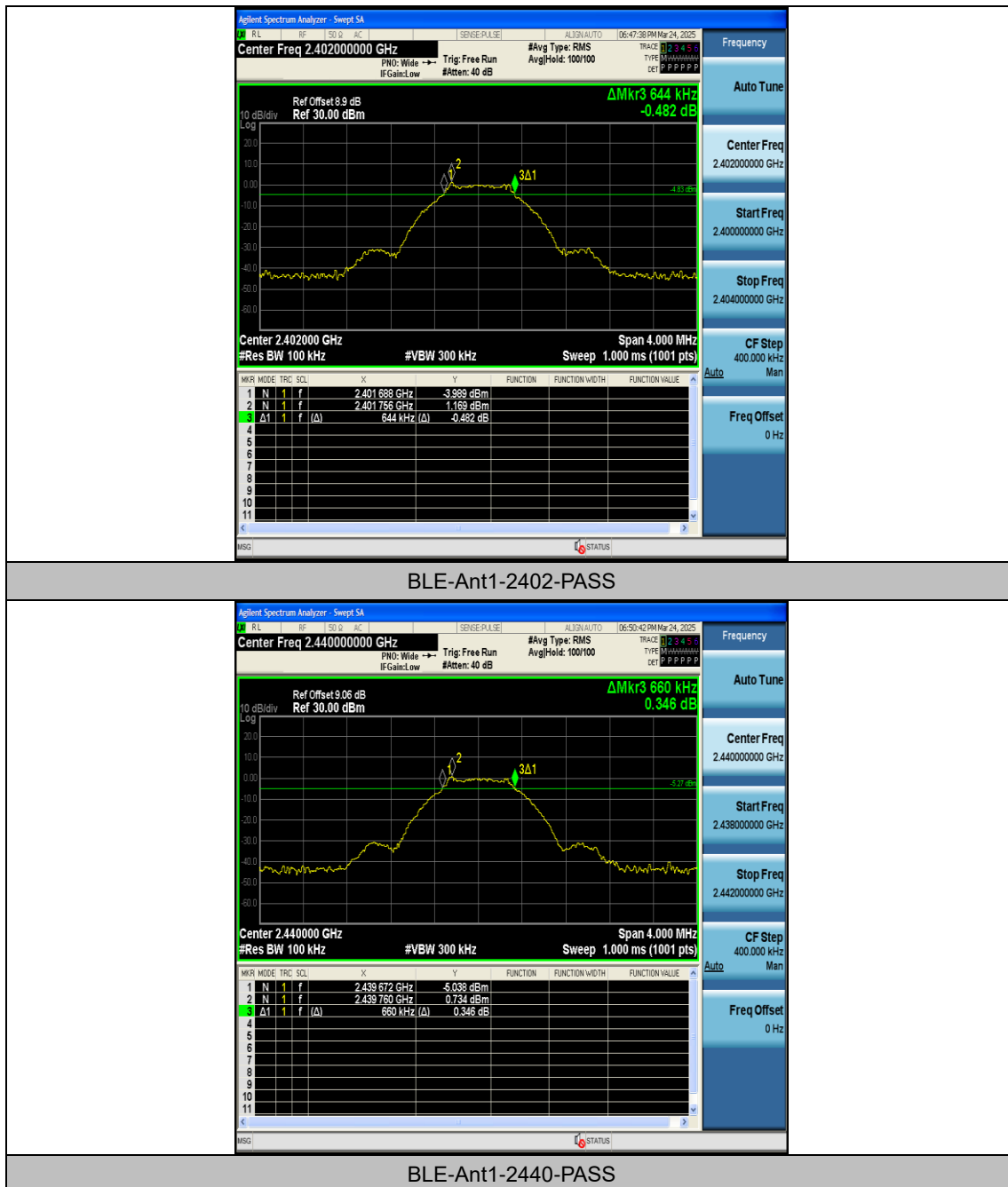
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.644	2401.688	2402.332	0.5	PASS
BLE	Ant1	2440	0.660	2439.672	2440.332	0.5	PASS
BLE	Ant1	2480	0.660	2479.688	2480.348	0.5	PASS

Test Graphs



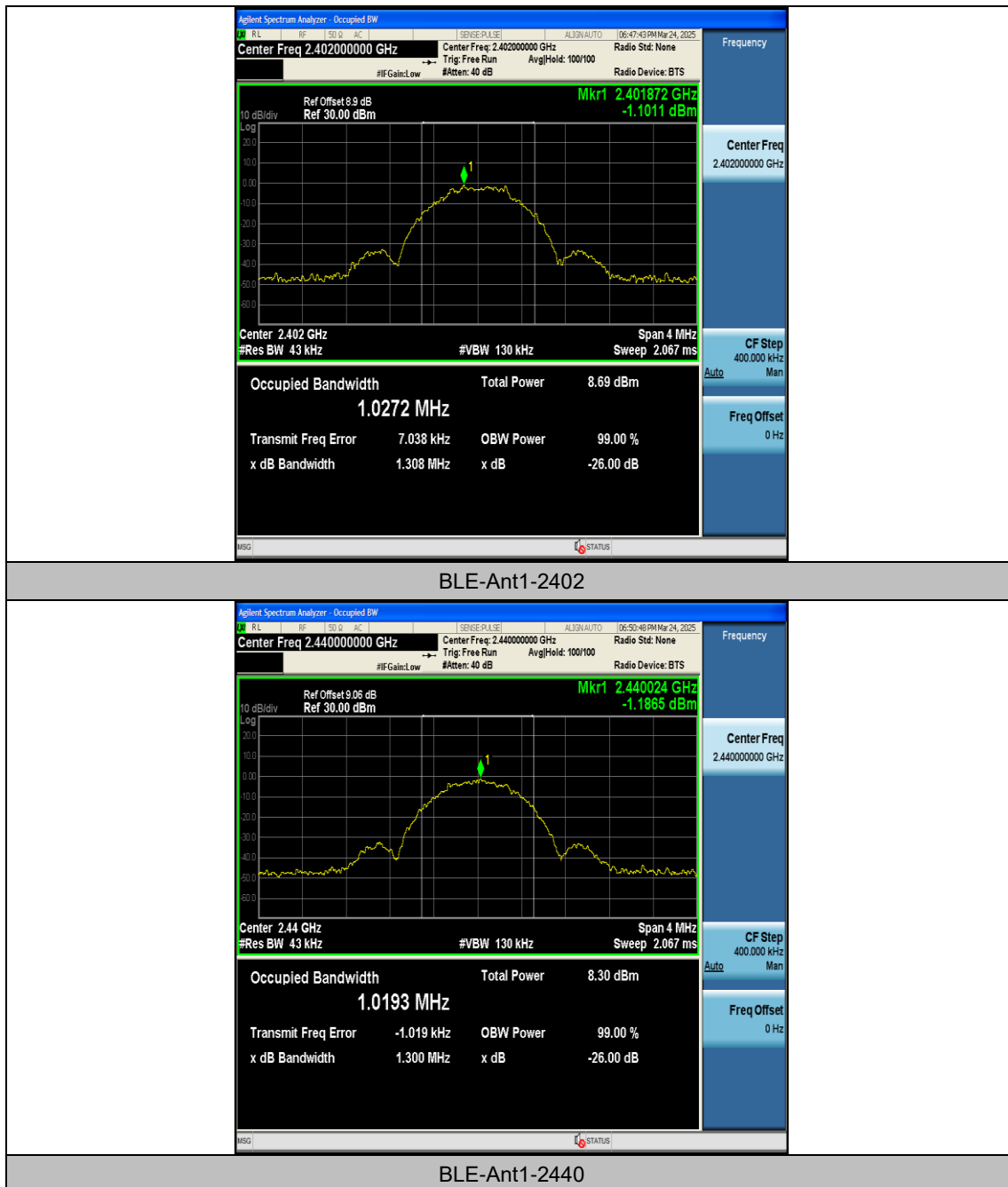


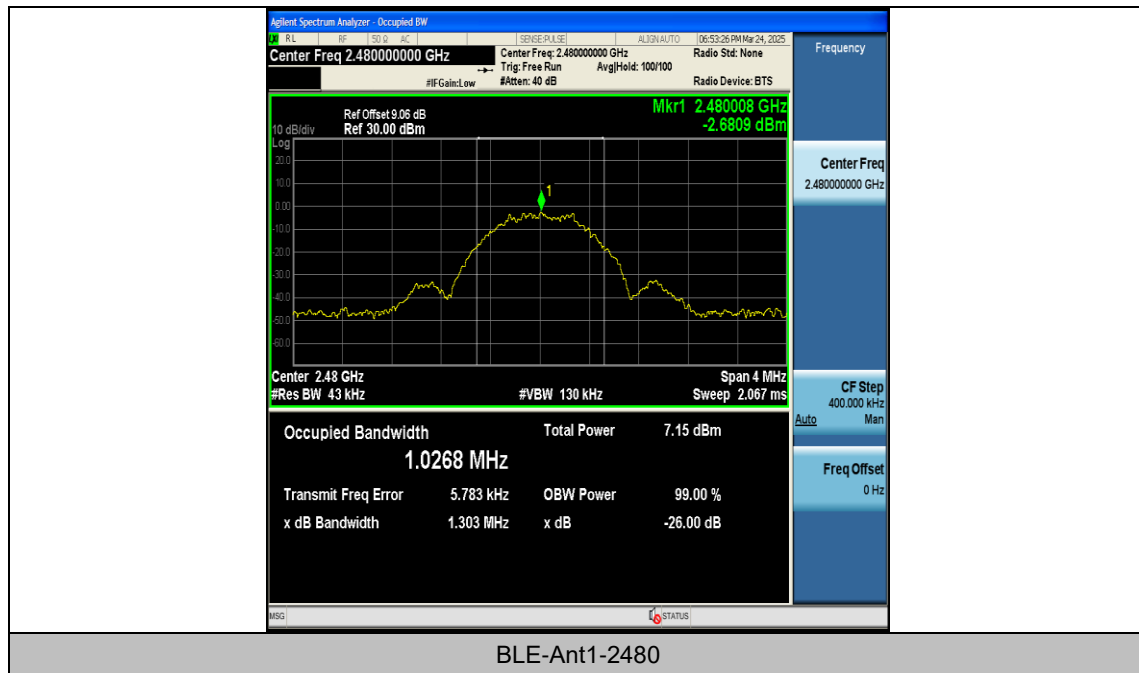
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	1.0272	2401.4934	2402.5206	---	---
BLE	Ant1	2440	1.0193	2439.4893	2440.5086	---	---
BLE	Ant1	2480	1.0268	2479.4924	2480.5192	---	---

Test Graphs



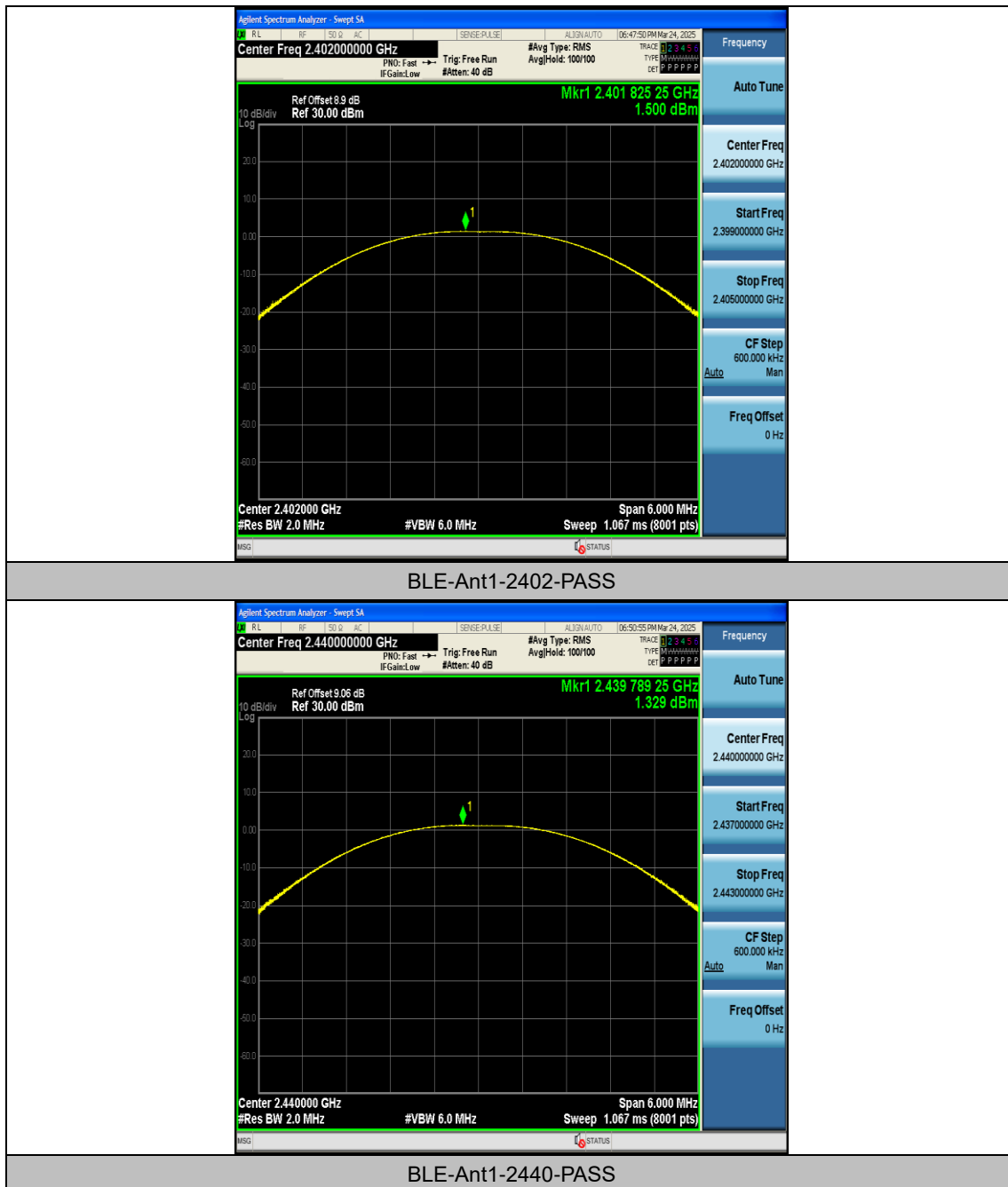


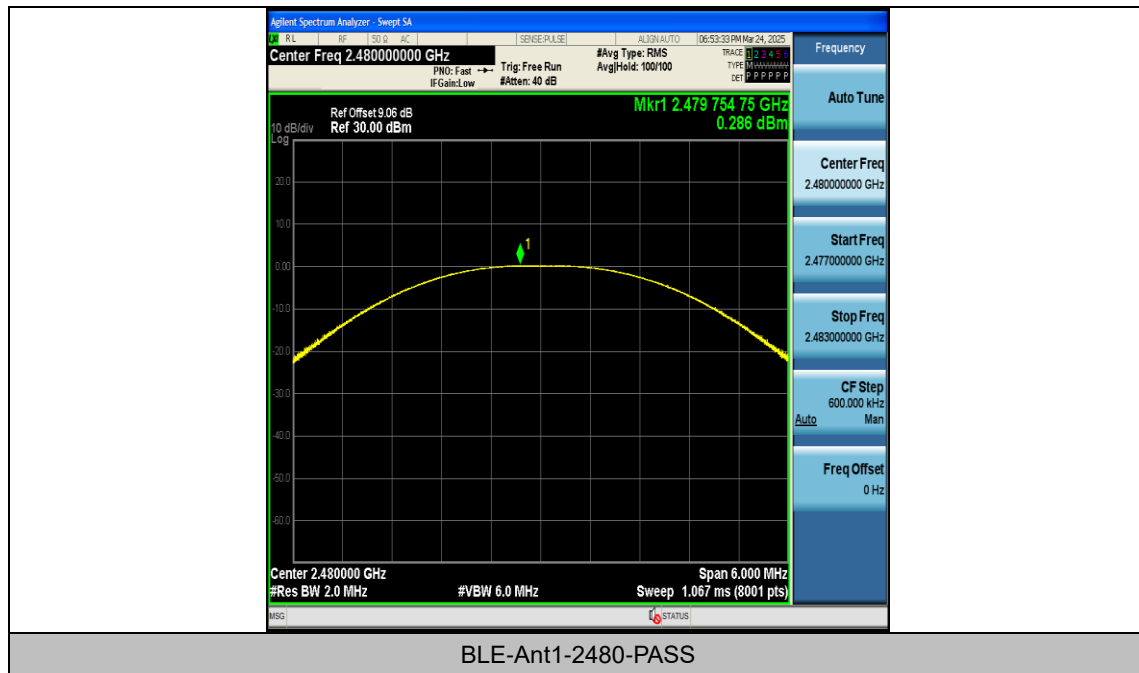
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE	Ant1	2402	1.50	≤30	PASS
BLE	Ant1	2440	1.33	≤30	PASS
BLE	Ant1	2480	0.29	≤30	PASS

Test Graphs Peak



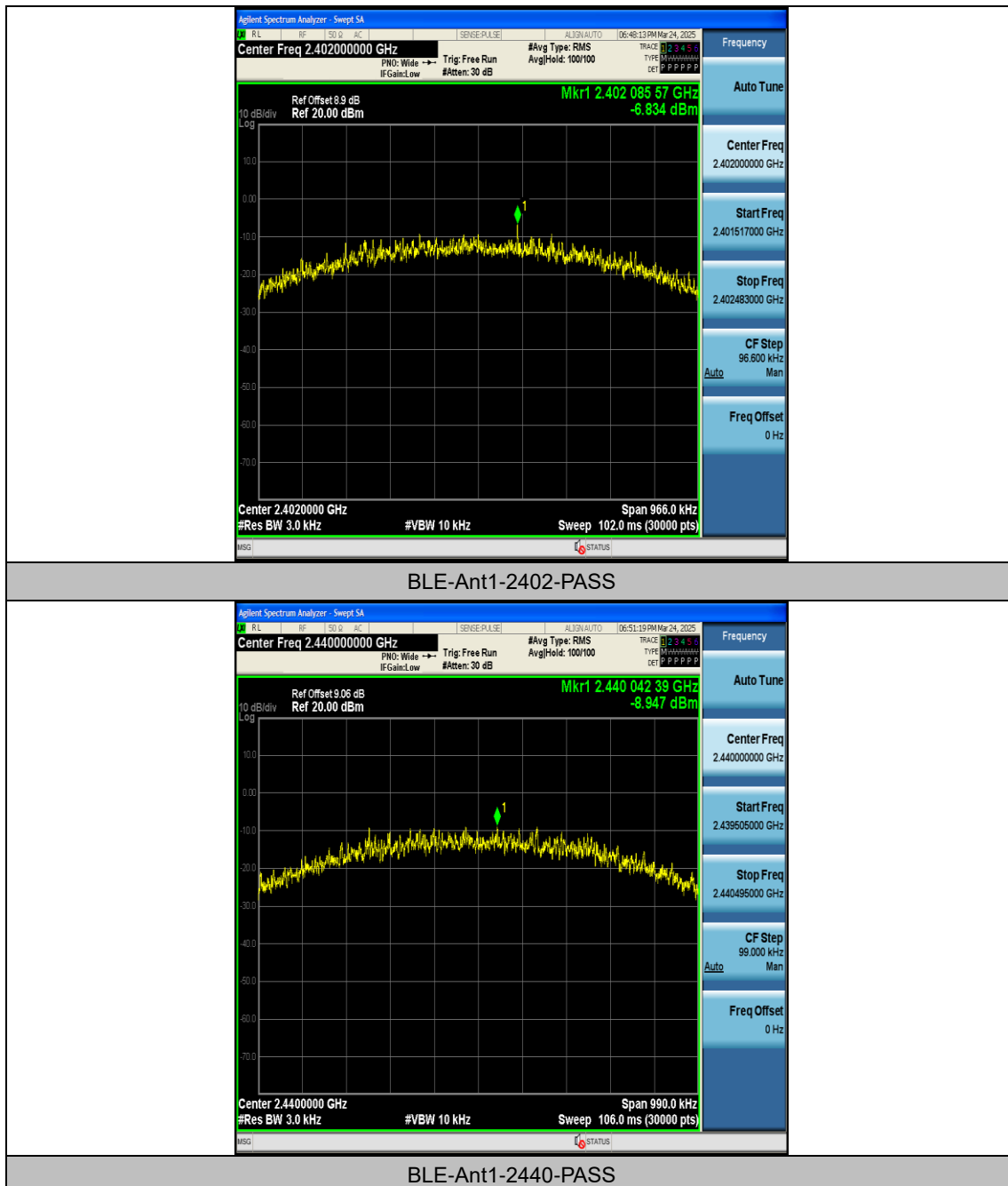


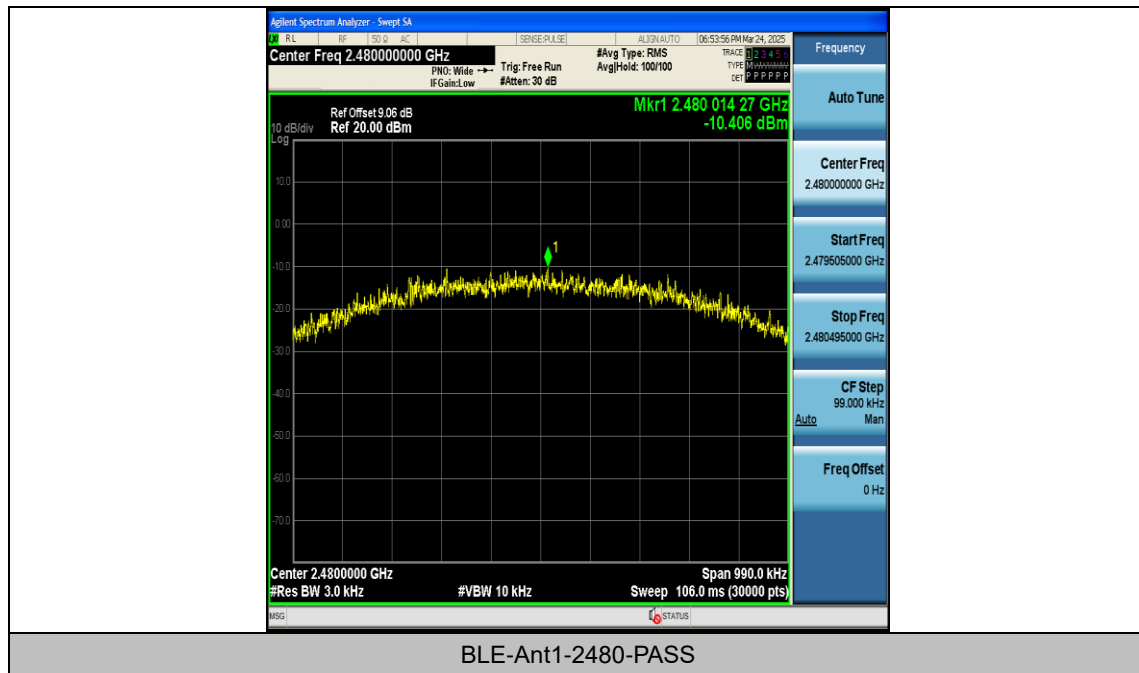
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	Ant1	2402	-6.83	≤8.00	PASS
BLE	Ant1	2440	-8.95	≤8.00	PASS
BLE	Ant1	2480	-10.41	≤8.00	PASS

Test Graphs



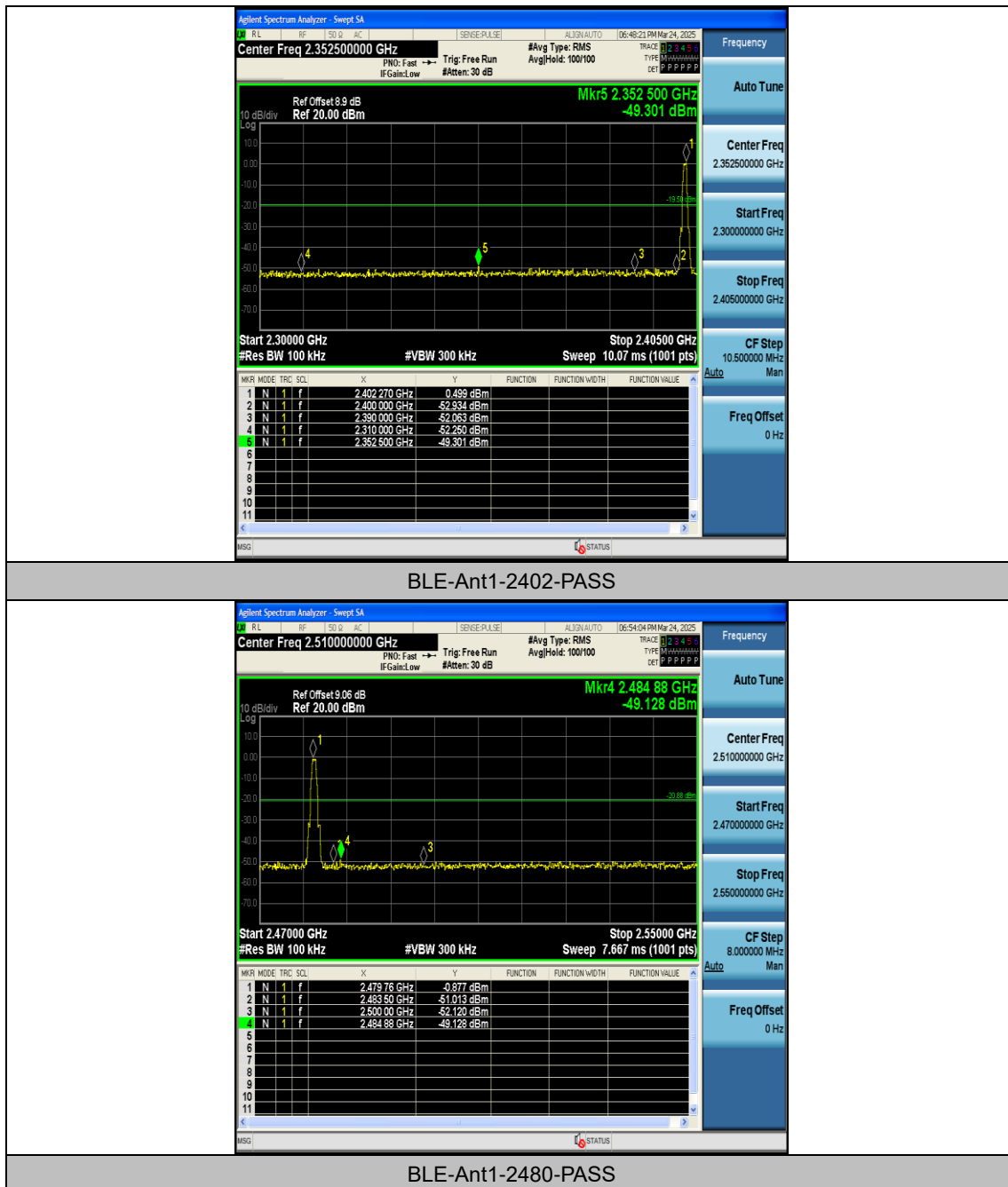


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	0.50	-49.3	≤ -19.5	PASS
BLE	Ant1	High	2480	-0.88	-49.13	≤ -20.88	PASS

Test Graphs

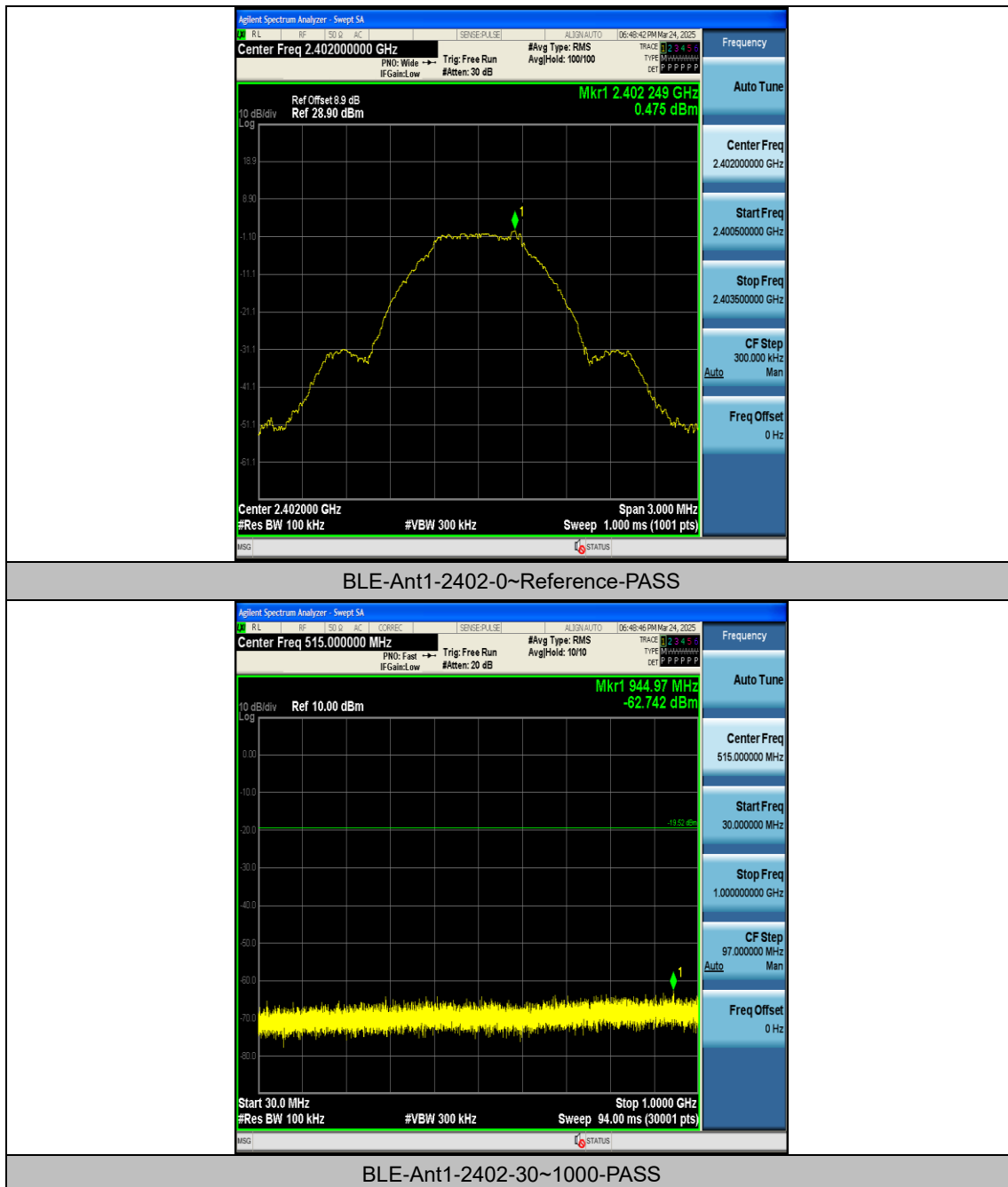


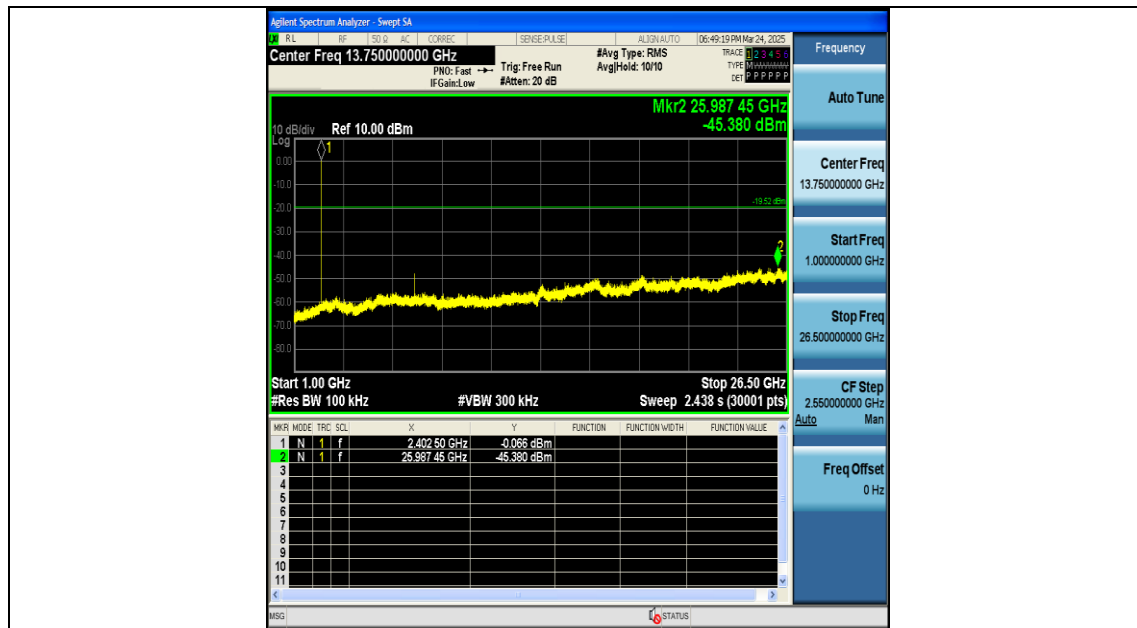
Appendix F: Conducted Spurious Emission

Test Result

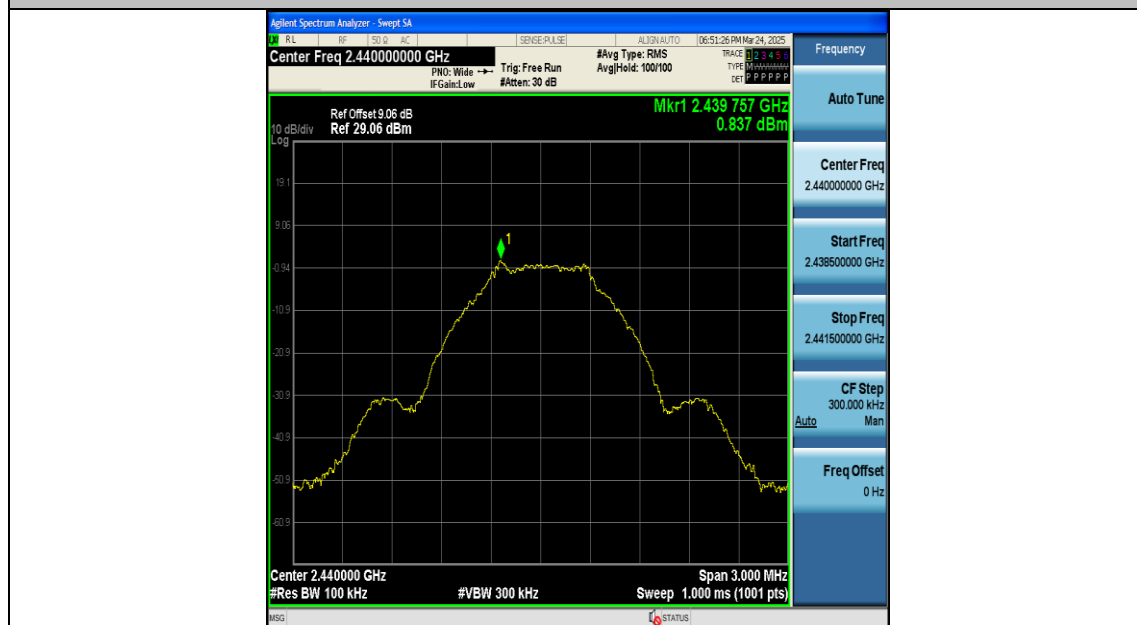
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	2402	0~Reference	0.48	0.48	---	PASS
BLE	Ant1	2402	30~1000	0.48	-62.74	≤-19.52	PASS
BLE	Ant1	2402	1000~26500	0.48	-45.38	≤-19.52	PASS
BLE	Ant1	2440	0~Reference	0.84	0.84	---	PASS
BLE	Ant1	2440	30~1000	0.84	-62.56	≤-19.16	PASS
BLE	Ant1	2440	1000~26500	0.84	-45.09	≤-19.16	PASS
BLE	Ant1	2480	0~Reference	-0.58	-0.58	---	PASS
BLE	Ant1	2480	30~1000	-0.58	-62.24	≤-20.58	PASS
BLE	Ant1	2480	1000~26500	-0.58	-44.5	≤-20.58	PASS

Test Graphs

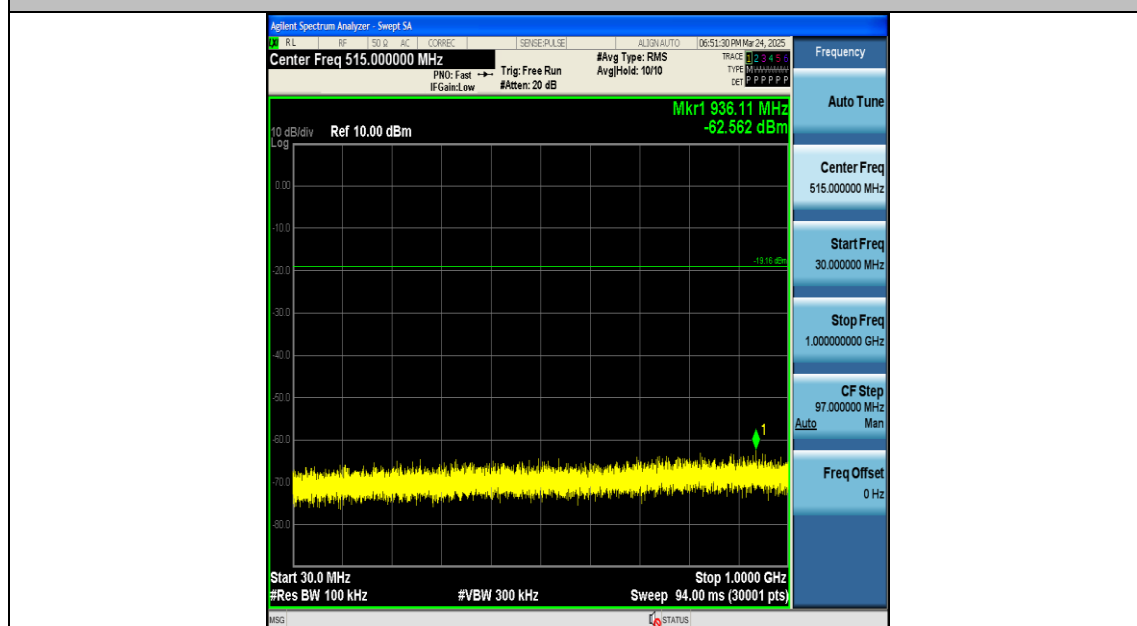




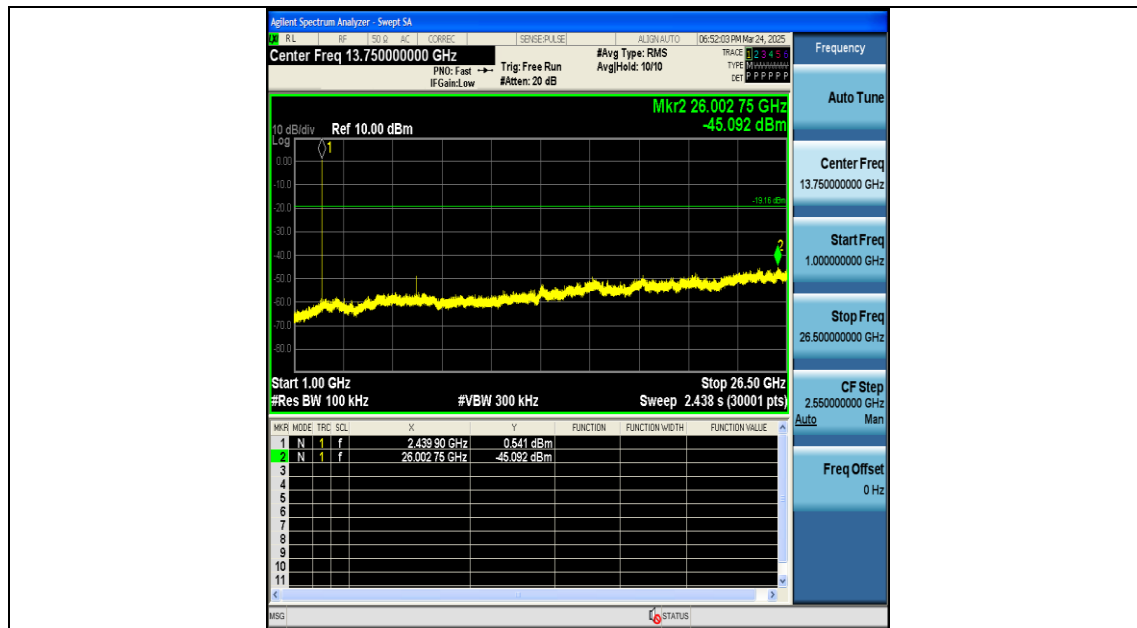
BLE-Ant1-2402-1000~26500-PASS



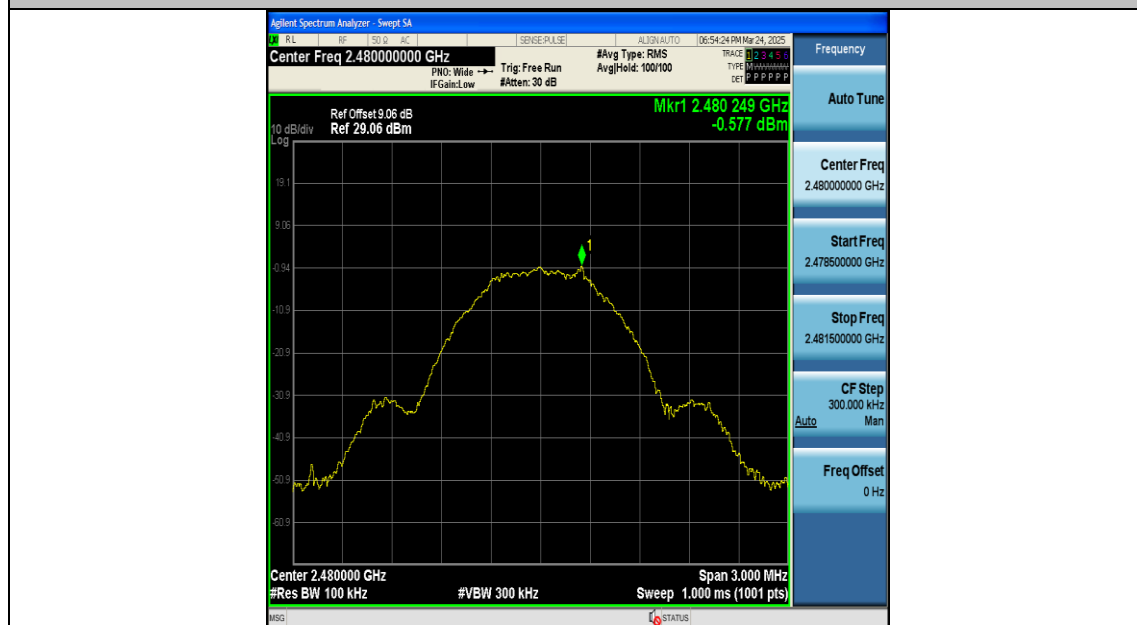
BLE-Ant1-2440-0~Reference-PASS



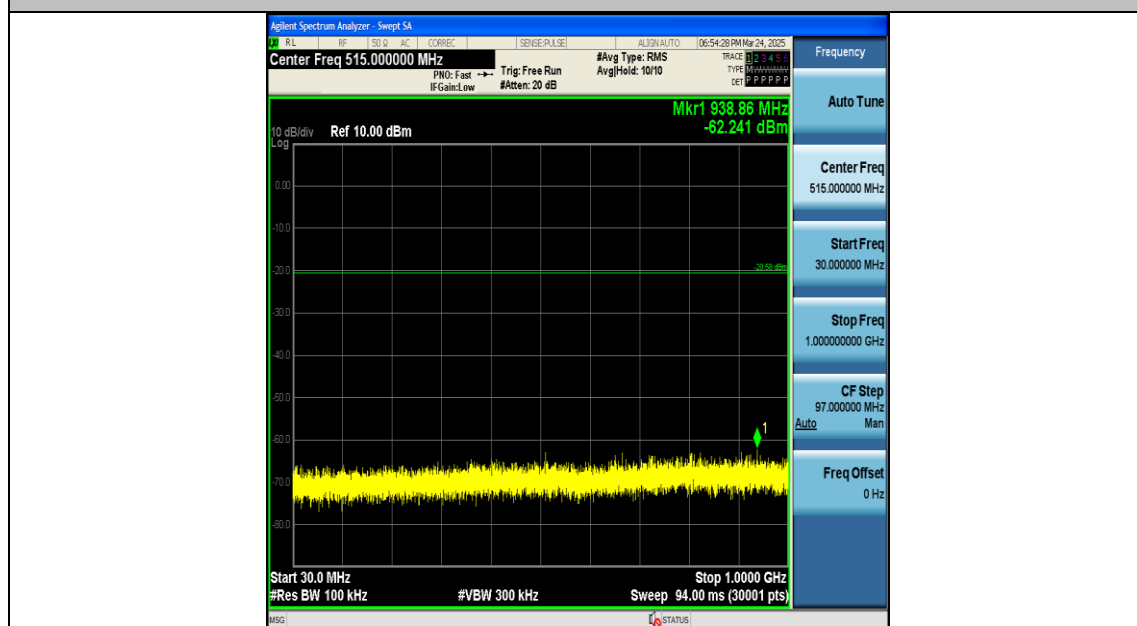
BLE-Ant1-2440-30~1000-PASS



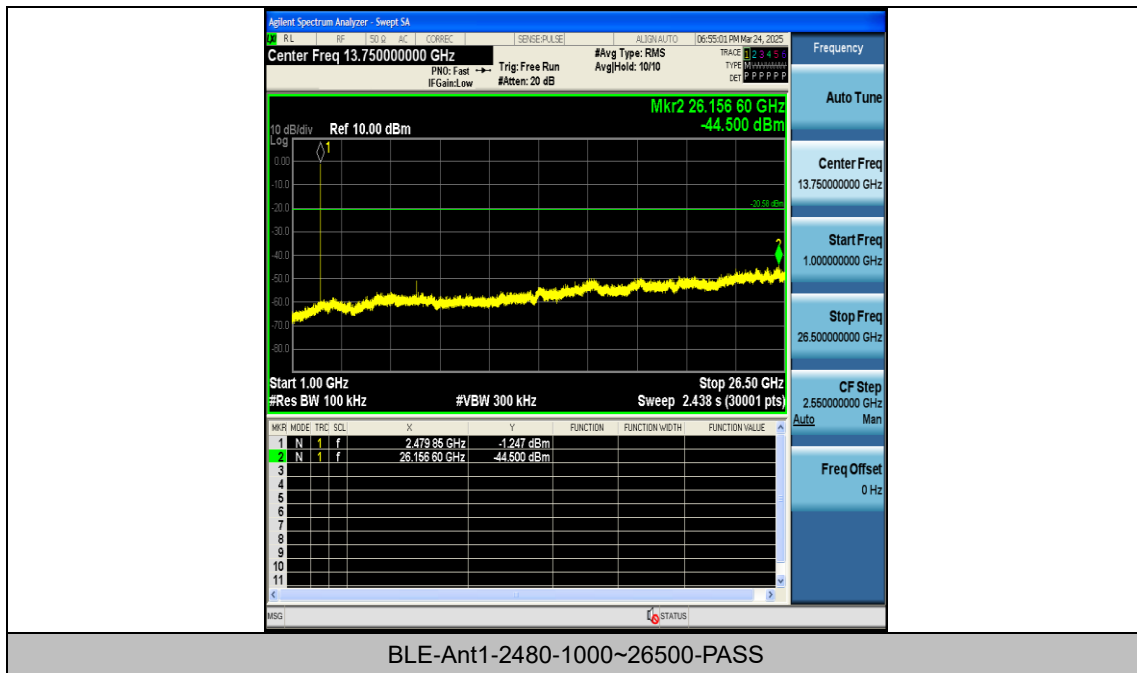
BLE-Ant1-2440-1000~26500-PASS



BLE-Ant1-2480-0~Reference-PASS



BLE-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE	Ant1	2402	19.00	19.00	100.00	0.00
BLE	Ant1	2440	19.00	19.00	100.00	0.00
BLE	Ant1	2480	19.00	19.00	100.00	0.00

Test Graphs

